PATENT COOPERATION TO ATY

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1	Vinsome, Rex Martin URQUHART-DYKES & LORD				Jale	6/3/02	nitia	s A PCI
				17.21				
	men Co		Chambers r	UROUHAR	URQUHART-DYKES & L			WRITTEN OPINION
V	lewcast	le U	pon Tyne NE1 1PE	01160411				(2022)
G	RANDE	BF	RETAGNE	10	DEC 2001			(PCT Rule 66)
				NE	WCAST	Pate of mail	ng <i>vear)</i>	06.12.2001
	onlicants	or an	ent's file reference			REPLY D		
1	400001	-	onto mo reference			INCPE! D	OE.	within 3 month(s) from the above date of mailing
In	temationa	і арр	lication No.	Internation	nal filing date (d	lay/month/yea	ar)	Priority date (day/month/year)
P	CT/GB0	1/00	0222	23/01/2			,	25/01/2000
Int	ternationa	l Pate	ent Classification (IPC) of	both national c	lassification and	IPC		
H	01 J3 7/3	17						
	plicant							
E,	VER 13	91 L	IMITED et al.					
1.	This w	ritter	n opinion is the first d	awn up by thi	s Internationa	l Preliminar	y Examir	ning Authority.
2.	This o	pinio	n contains indications	relating to the	e following ite	ms:		
		_			•			
	11	⊠ ⊠	Basis of the opinion Priority					
	" !!!			f opinion with	regard to nov	elty inventi	ve sten s	and industrial applicability
	IV		Lack of unity of inver		-	y,v o	ro otop c	and modernal applicability
	V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			ventive step or industrial applicability;				
	VI		Certain document cit		ing such state	ment		
	VII		Certain defects in the	international				
	VIII	Ø	Certain observations	on the interna	ational applica	ntion		j
3.	The ap	plica	nt is hereby invited to	reply to this	opinion.			
	When?		See the time limit indicate request this Authority to	ed above. The a	applicant may, t ion, see Rule 6	pefore the exp 6.2(d).	oiration of	that time limit,
	How?		By submitting a written r For the form and the lan	eply, accompan guage of the am	ied, where appi endments, see	ropriate, by ar Rules 66.8 a	mendmen nd 66.9.	ts, according to Rule 66.3.
	Also: For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6.				Rule 66.4 bis.			
	If no rep	iy is	filed, the international pr	eliminary exami	nation report w	ill be establish	ned on the	basis of this opinion.
4.			by which the international		<u>-</u>	40-10-		
	examina	tion r	eport must be established	according to F	Rule 69.2 is: 25	/05/2002.		
			address of the internation			Authorized off		

preliminary examining authority:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Gols, J

Formalities officer (incl. extension of time limits) Schuster-Kaechele, W Telephone No. +49 89 2399 2281



I.	Basi	s of	the	op	ini	ion
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1.	With regard to the elements of the international application (Replacement sheets which have been furnished to
	the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed")

	Description, pages.							
	1-8		as originally filed					
	Cla	claims, No.:						
	1-20)	as originally filed					
	Dra	Drawings, sheets:						
	1/2-	2/2	as originally filed					
2.	With lang	With regard to the language, all the elements marked above were available or furnished to this Authority in the anguage in which the international application was filed, unless otherwise indicated under this item.						
	The	se elements were a	available or furnished to this Authority in the following language: , which is:					
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).					
	the language of publication of the international application (under Rule 48.3(b)).							
		the language of a 1 55.2 and/or 55.3).	translation furnished for the purposes of international preliminary examination (under Rule					
3.	With inte	h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the ernational preliminary examination was carried out on the basis of the sequence listing:						
		contained in the in	ternational application in written form.					
		filed together with	the international application in computer readable form.					
		furnished subsequ	ently to this Authority in written form.					
		furnished subsequ	ently to this Authority in computer readable form.					
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosion the international application as filed has been furnished.							
		The statement that listing has been fu	t the information recorded in computer readable form is identical to the written sequence rnished.					
4.	The	he amendments have resulted in the cancellation of:						
		the description,	pages:					
		the claims,	Nos.:					
	_	,						

WRITTEN OPINION

International application No. PCT/GB01/00222

		the drawings,	sheets:				
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):					
		(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)					
6.	Add	itional observations, if	necessary:				

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

s separate sheet

VIII

- 1. Reference is made to the following documents:
 - D1: BATZILL M ET AL: 'Preferential sputtering induced stress domains and mesoscopic phase separation on CaF/sub 2/(111)' PHYSICAL REVIEW LETTERS, 24 JULY 2000, APS, USA, vol. 85, no. 4, pages 780-783, XP002167056 ISSN: 0031-9007
- 2. Claim 1:
- a. According to the method of claim 1, a thin surface layer of first material is provided on a substrate so that, due to stresses at the interface of the layer and the substrate, the formation of separated regions of the first material on the substrate is caused.

This is not in line with what is mentioned in the description. As is clear from the description (starting from page 6, second section, first line), Irradiation of the substrate by means of an ion beam causes ejection of atoms from the substrate and the stress field at the interface between the thin layer and the substrate causes formation of separate regions.

Consequently, the claim should state in appropriate wording that the particle beam together with the stress fields causes the formation of the separate regions. At present the reader is led to believe that the particle beam does not play a role in the formation of these regions (cf in claim 1, second section) since the particle beam is said to influence the direction of alignment and/or the relative positions of these regions only (cf the last section of claim 1).

- b. When amending claim 1 in order to overcome the above-mentioned objection, the dependent claims (where appropriate) should be amended as well (see, e.g. dependent claim 2 which, in its present form, is also not in line with the description as well).
- 3. Claim 20:

Claim 20 contains a reference to the description and the drawings. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here. The claim should therefore be deleted.

- 4. The features of the claims should be provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 5. It is noted that D1 is indicated as a P-document. The applicant should ensure that an amended independent claim 1 should be defined in such a manner that the claimed priority remains valid in view of the priority document of the present application. If it turns out that the amended claim is drafted in such a manner that the claimed priority date becomes invalid, D1 will be used as normal prior art and will be cited under Rule 64.1 PCT. Due to the relevance of D1 it then will be used for questioning the presence of an inventive step in the present application.
- 6. In order to facilitate the examination of the conformity of the amended application with the requirements of Article 34(2)(b) PCT, the applicant is requested to clearly identify the amendments carried out, no matter whether they concern amendments by addition, replacement or deletion, and to indicate the passages of the application as filed on which these amendments are based (see also Rule 66.8(a) PCT).

If the applicant regards it as appropriate these indications could be submitted in handwritten form on a copy of the relevant parts of the application as filed.